

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478329

Luminaire Tested: **IFLD-S-SA6C-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478329  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

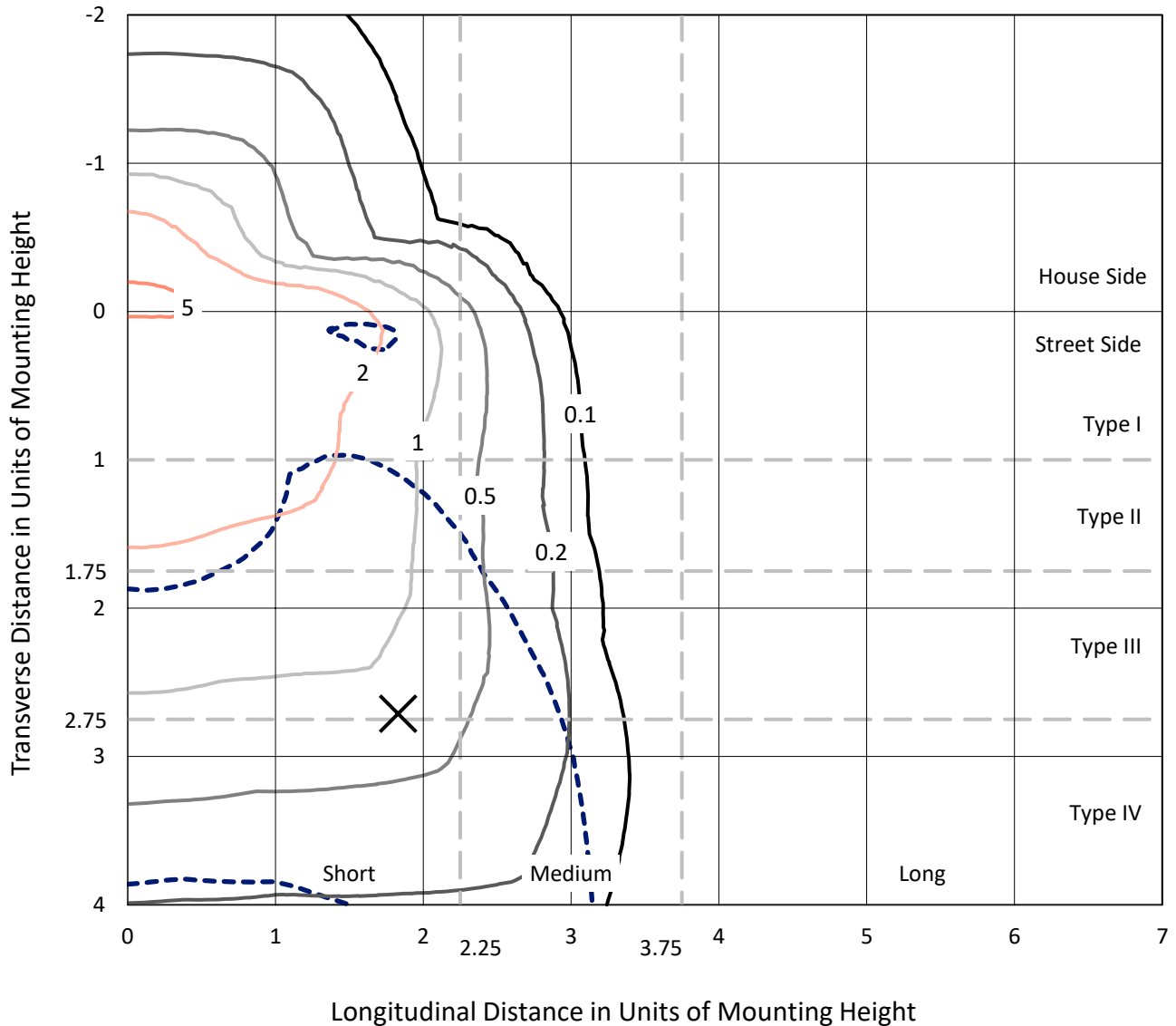
Lumens per Lamp: N/A  
Luminaire Lumens: 33825.7 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

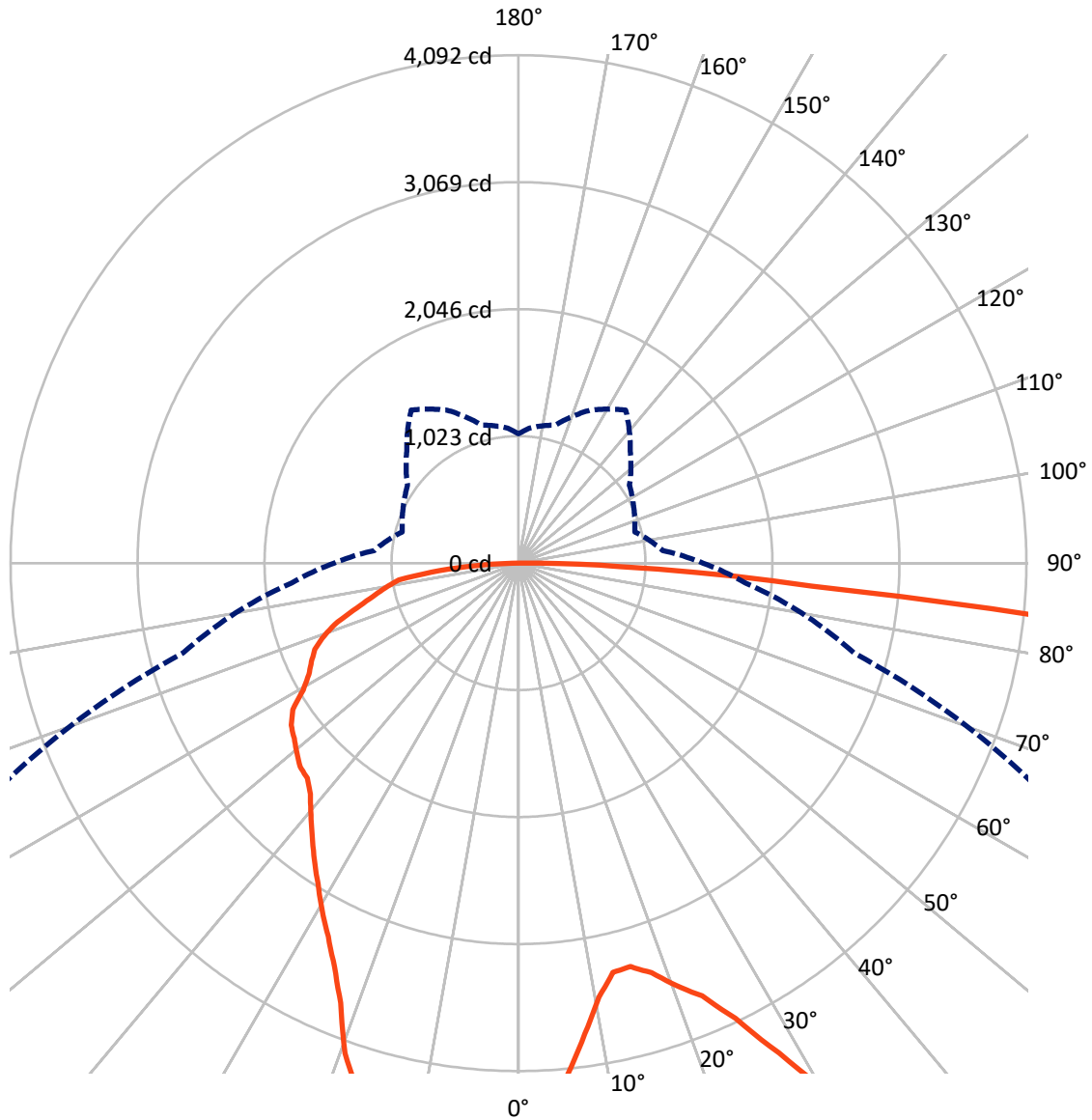
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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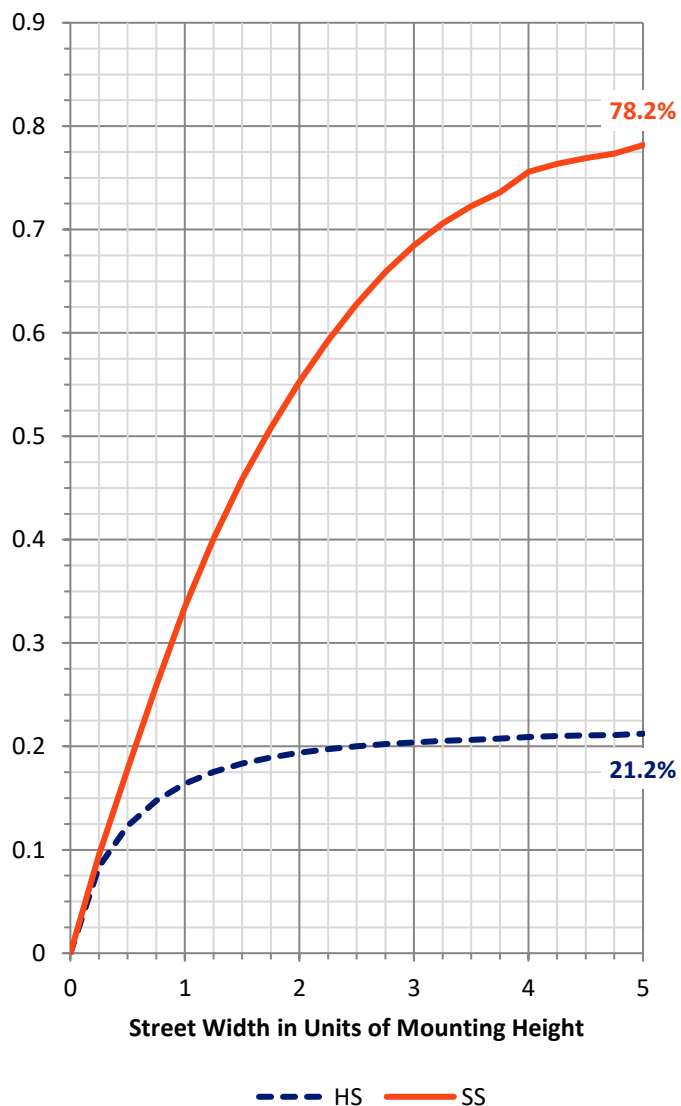
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7306.8	0.0	7306.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26518.9	0.0	26518.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33825.7	0.0	33825.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.6	1.3
10°-20°	1252.6	3.7
20°-30°	2061.6	6.1
30°-40°	3083.1	9.1
40°-50°	4570.5	13.5
50°-60°	6586.6	19.5
60°-70°	8405.4	24.8
70°-80°	6540.8	19.3
80°-90°	877.5	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33825.7	100.0
0°-180°	33825.7	100.0

**Coefficient of Utilization**



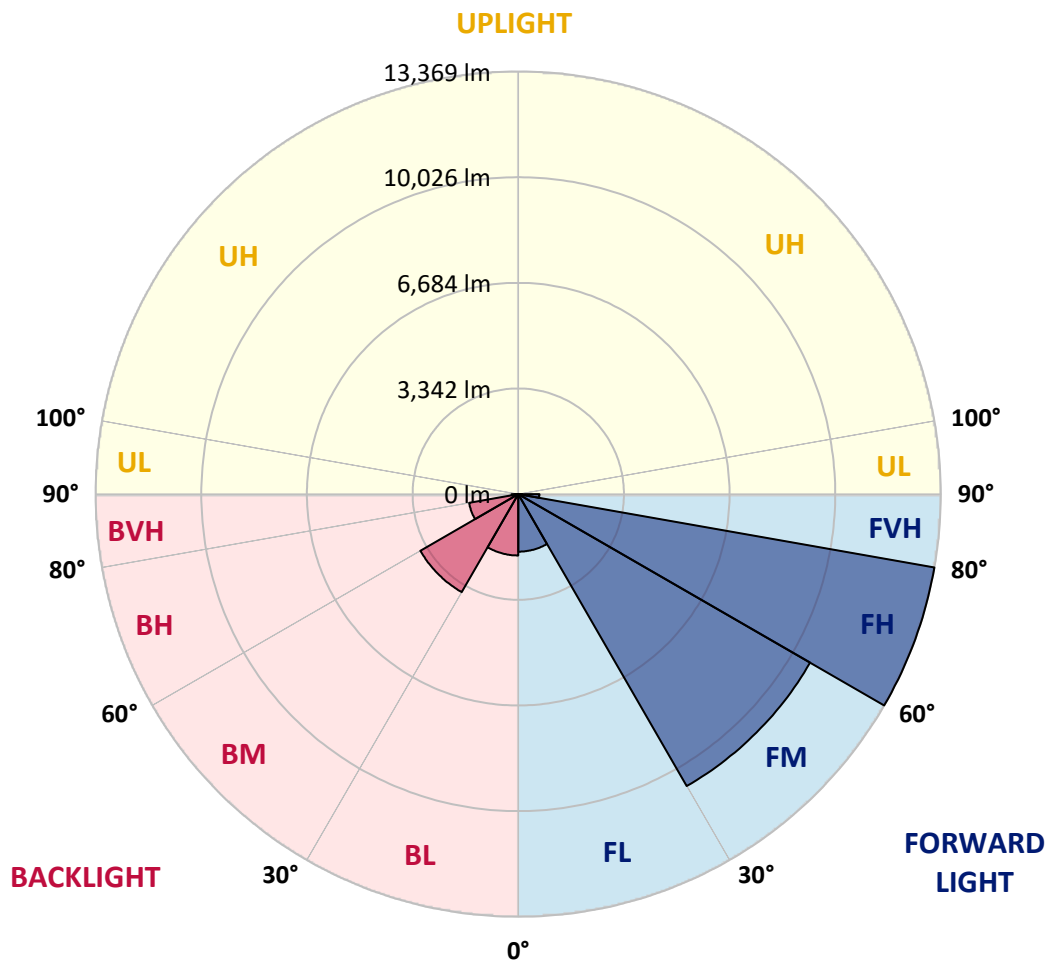
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.4	5.4			
FM (30°-60°)	10662.1	31.5			
FH (60°-80°)	13368.5	39.5			G5
FVH (80°-90°)	667.9	2.0			G4/750
BL (0°-30°)	1941.4	5.7	B3/2500		
BM (30°-60°)	3578.2	10.6	B3/5000		
BH (60°-80°)	1577.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	209.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4
2.5°	4345.2	4359.5	4406.0	4416.7	4466.8	4438.2	4499.0	4606.3	4667.1	4756.5	4863.8
5°	4001.9	3941.1	3969.7	4080.5	4137.8	4152.1	4216.4	4398.8	4513.3	4645.6	4845.9
7.5°	3597.7	3587.0	3644.2	3715.8	3830.2	3840.9	3984.0	4144.9	4381.0	4674.2	4910.2
10°	3322.4	3368.9	3401.0	3476.2	3554.8	3554.8	3737.2	4016.2	4284.4	4566.9	4924.5
12.5°	3308.1	3279.5	3286.6	3325.9	3383.2	3454.7	3626.4	3876.7	4216.4	4545.5	4985.3
15°	3354.6	3365.3	3300.9	3351.0	3372.4	3397.5	3587.0	3869.5	4173.5	4620.6	5089.1
17.5°	3601.3	3540.5	3440.4	3393.9	3469.0	3469.0	3597.7	3819.5	4180.7	4659.9	5239.3
20°	3794.4	3794.4	3629.9	3579.9	3633.5	3622.8	3712.2	3876.7	4216.4	4738.6	5407.3
22.5°	4119.9	4166.4	3894.6	3790.9	3787.3	3815.9	3894.6	4034.1	4316.6	4849.4	5568.3
25°	4588.4	4599.1	4284.4	4177.1	4062.7	4109.2	4123.5	4262.9	4406.0	4978.2	5750.7
27.5°	5110.5	5103.4	4813.7	4545.5	4470.4	4481.1	4402.4	4495.4	4538.3	5017.5	6011.7
30°	5689.9	5625.5	5407.3	5028.3	4967.5	4899.5	4727.9	4724.3	4813.7	5239.3	6372.9
32.5°	6069.0	5986.7	5836.5	5564.7	5396.6	5403.8	5132.0	5128.4	5049.7	5482.4	6687.7
35°	6440.9	6315.7	6276.4	5997.4	5829.3	5847.2	5629.1	5600.5	5457.4	5850.8	7206.2
37.5°	6887.9	6777.1	6837.9	6626.9	6419.4	6333.6	6233.5	6197.7	6011.7	6369.4	7914.3
40°	7381.5	7345.7	7306.4	7202.6	7077.5	7084.6	6977.3	6941.6	6666.2	6995.2	8593.8
42.5°	8046.6	7910.7	7706.9	7774.9	7839.2	7907.2	7871.4	7778.4	7492.3	7631.8	9352.0
45°	8665.3	8486.5	8111.0	8132.5	8397.1	8450.8	8883.5	8872.8	8297.0	8440.0	10213.9
47.5°	9083.8	9001.5	8776.2	8751.2	9130.3	9126.7	9906.3	9906.3	9144.6	9244.7	11140.1
50°	9706.0	9491.5	9394.9	9520.1	9713.2	9845.5	10950.6	11018.5	9977.8	10085.1	12352.5
52.5°	10435.6	10167.4	9924.2	10246.1	10589.4	10675.2	11984.1	11955.5	10618.0	11061.5	13772.3
55°	11040.0	10904.1	10736.0	10922.0	11483.5	11590.7	13021.3	12756.6	11258.2	11869.7	14455.4
57.5°	11744.5	11826.8	11862.5	11816.1	12484.8	12652.9	14205.0	13446.8	11808.9	12413.3	14855.9
60°	12806.7	12856.8	12903.2	13014.1	13722.2	13958.3	15142.0	14312.3	12155.8	12728.0	14888.1
62.5°	14423.2	14230.1	14333.8	14716.4	15285.1	15553.3	16522.5	14920.3	12420.4	12917.6	13836.7
65°	16272.1	16011.0	15903.8	16397.3	17870.7	17656.1	18246.2	15374.5	12037.8	12209.4	11733.8
67.5°	18146.1	18174.7	17899.3	18890.0	20696.0	20696.0	19848.4	15592.6	11000.7	9895.6	8229.0
70°	19633.8	19723.2	19873.4	21793.9	24654.9	25087.7	21833.2	14698.5	8887.1	6587.5	4499.0
72.5°	19612.4	19344.1	20113.0	23650.0	28252.7	27891.5	22248.1	11622.9	5546.8	3225.8	2063.5
73°	19172.5	18947.2	19787.6	23632.1	28399.3	28059.6	21944.1	10714.6	4892.4	2796.7	1834.6
75°	15657.0	15249.3	16679.8	21404.1	26275.0	26536.1	18643.2	6988.1	2682.2	1723.8	1291.0
77.5°	7138.3	7317.1	9180.3	14358.8	20248.9	20556.5	12255.9	3022.0	1469.9	1208.8	951.3
80°	2292.4	2406.8	3572.7	7138.3	12692.2	13246.6	5664.8	1373.3	1047.9	926.3	711.7
82.5°	876.2	872.6	1498.5	2968.3	6015.3	6369.4	2070.7	836.9	779.6	683.1	504.3
85°	307.6	321.9	565.1	1173.0	2367.5	2478.4	718.8	464.9	540.0	457.8	289.7
87.5°	107.3	110.9	200.3	425.6	815.4	861.9	200.3	186.0	268.2	264.6	146.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4	4849.4
2.5°	4899.5	4931.7	4942.4	5071.2	5071.2	5071.2	5121.2	5121.2	5106.9	5071.2	5157.0
5°	4921.0	4978.2	5089.1	5199.9	5228.5	5253.6	5321.5	5264.3	5285.8	5250.0	5282.2
7.5°	4981.8	5060.4	5267.9	5335.8	5289.3	5343.0	5271.4	5232.1	5192.8	5207.1	5157.0
10°	5085.5	5185.6	5282.2	5407.3	5317.9	5264.3	5117.7	5081.9	4956.7	4913.8	4953.2
12.5°	5214.2	5335.8	5500.3	5453.8	5282.2	5128.4	4971.0	4820.8	4745.7	4638.4	4667.1
15°	5343.0	5482.4	5507.5	5428.8	5214.2	5021.1	4735.0	4524.0	4448.9	4352.3	4402.4
17.5°	5482.4	5614.8	5571.9	5368.0	5078.3	4785.1	4459.6	4252.2	4094.8	4034.1	4034.1
20°	5689.9	5754.2	5686.3	5267.9	4913.8	4527.6	4212.9	3976.8	3819.5	3794.4	3755.1
22.5°	5850.8	5954.5	5650.5	5121.2	4674.2	4191.4	3830.2	3740.8	3694.3	3655.0	3604.9
25°	6058.2	6054.7	5586.2	4985.3	4262.9	3790.9	3572.7	3565.6	3544.1	3529.8	3597.7
27.5°	6254.9	6172.7	5511.1	4649.2	3837.4	3486.9	3368.9	3447.5	3479.7	3458.3	3486.9
30°	6566.1	6430.2	5403.8	4291.5	3461.8	3179.3	3200.8	3308.1	3361.7	3393.9	3351.0
32.5°	6895.1	6687.7	5182.0	3919.6	3129.3	2986.2	3036.3	3147.1	3211.5	3247.3	3286.6
35°	7370.7	6887.9	4956.7	3433.2	2889.6	2868.2	2896.8	2957.6	3050.6	3075.6	3086.3
37.5°	7957.2	7191.9	4652.8	3043.4	2703.7	2728.7	2757.3	2778.8	2782.4	2828.8	2811.0
40°	8543.8	7449.4	4209.3	2671.5	2510.6	2646.5	2632.1	2592.8	2560.6	2517.7	2507.0
42.5°	9058.7	7674.7	3715.8	2356.8	2338.9	2560.6	2514.1	2414.0	2338.9	2306.7	2253.1
45°	9638.1	7993.0	3218.7	2160.1	2206.6	2456.9	2442.6	2288.8	2192.3	2077.8	2063.5
47.5°	10389.1	8325.6	2743.0	1956.2	2081.4	2417.6	2424.7	2228.0	2088.6	1934.8	1913.3
50°	11351.1	8804.8	2381.8	1870.4	2006.3	2360.4	2371.1	2145.8	1963.4	1806.0	1791.7
52.5°	12273.8	9294.8	2081.4	1738.1	1956.2	2292.4	2317.4	2070.7	1859.7	1663.0	1673.7
55°	12738.7	9116.0	1823.9	1641.5	1841.8	2181.5	2274.5	2017.0	1702.3	1566.4	1562.8
57.5°	12842.5	8676.1	1620.1	1541.4	1745.2	2063.5	2203.0	1856.1	1630.8	1516.3	1502.0
60°	12502.7	7907.2	1459.1	1434.1	1623.6	1941.9	2038.5	1770.3	1559.3	1466.3	1444.8
62.5°	11665.9	7109.7	1348.3	1384.0	1519.9	1809.6	1934.8	1709.5	1491.3	1426.9	1380.4
65°	9566.6	5847.2	1258.9	1287.5	1412.6	1680.9	1870.4	1641.5	1430.5	1369.7	1366.1
67.5°	6626.9	4030.5	1187.3	1241.0	1326.8	1587.9	1806.0	1566.4	1351.8	1330.4	1301.8
70°	3393.9	2149.3	1094.3	1137.3	1233.8	1469.9	1691.6	1487.7	1269.6	1266.0	1230.2
72.5°	1720.2	1258.9	987.1	1051.4	1119.4	1316.1	1548.5	1384.0	1165.9	1126.5	1069.3
73°	1487.7	1165.9	969.2	1026.4	1090.8	1273.2	1505.6	1359.0	1151.6	1094.3	1040.7
75°	1083.6	919.1	869.0	926.3	976.3	1148.0	1362.6	1244.5	1058.6	997.8	947.7
77.5°	811.8	708.1	722.4	786.8	829.7	990.6	1212.4	1126.5	958.4	876.2	854.7
80°	597.2	540.0	597.2	658.0	690.2	872.6	1105.1	976.3	808.2	715.3	697.4
82.5°	425.6	393.4	461.3	500.7	515.0	722.4	994.2	779.6	611.5	490.0	450.6
85°	243.2	239.6	311.1	307.6	318.3	422.0	654.5	518.6	393.4	300.4	293.3
87.5°	107.3	118.0	157.4	125.2	132.3	200.3	279.0	193.1	160.9	89.4	67.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)